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(54) **MAGNETIC PARTICLE AND ITS PRODUCTION**

(57) Abstract:

PURPOSE: To obtain magnetic particles having good affinity to a binder resin, excellent heat resistance and wear resistance and suitable as a carrier by incorporating a magnetic powder and an amino resin powder bonded with high polymer chains on the surface.

CONSTITUTION: This magnetic powder contains a magnetic powder and an amino resin powder bonded with high polymer chains on its surface. This magnetic powder is produced by treating the amino resin powder with a treating agent to introduce functional groups

into the surface, and then allowing a polymn. initiator having functional groups to be bonded with the functional groups is allowed to react to bond the polymn. initiator to the surface of the amino resin powder. The treating agent has a halogenated acyl group and functional groups same as this halogenated acyl group or different from that in one molecule. A monomer phase containing this amino resin powder, magnetic powder and vinyl monomers is prepared and dispersed as liquid drops in a dispersion medium to effect polymn. The magnetic particles produced by this treating method have a small particle size with a narrow distribution of particle size, excellent heat resistance and wear resistance, and are hard and hardly cracked.

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